

CLAIMS

1. Circular saw machine comprising a saw blade (1) and a drive shaft (2) for the saw blade, and at least one rearward (4) and at least one forward saw blade guide (5) that contact two side surfaces of the saw blade (1), the saw blade guides (4, 5) respectively have at least one contact surface (6) to be abutted on the respective side surface of the saw blade (1), and for sawing, the saw blade (1) is movably mounted with the drive shaft (2) for back and forth in a rotation plane of the blade, wherein
the forward saw blade guide (5) is one of removable from or pivotable away from the saw blade (1), and the saw blade (1) is interchangeably mounted; a radial distance between the contact surfaces (6) of the saw blade guides (4, 5) and the drive shaft (2) is respectively adjustable in predetermined defined positions for matching different diameter saw blades.
2. Circular saw machine according to claim 1, wherein a distance between the rearward (4) and the forward saw blade guide (5) is adjustable for matching to different thicknesses of the saw blade (1).
3. Circular saw machine according to claim 1, wherein the forward saw blade guide (5) is selectable from a plurality of interchangeable plates having different spacings between the contact surfaces (6) and the drive shaft.
4. Circular saw machine according to claim 3, wherein the rearward saw blade guide (4) is at least partially selectable from a plurality of interchangeable plates with different spacings between the contact surfaces (6) and the drive shaft.
5. Circular saw machine according to claim 1, wherein at least one contact surface (6) of at least one of the saw blade guides (4, 5) is installed on a mounting (12) that

is pivotable in a direction parallel to a plane of the saw blade on the saw blade guide (4, 5).

6. Circular saw machine according to claim 5, wherein the mounting (12) can be fixed at a plurality of predetermined pivot angles.

7. Circular saw machine according to claim 1, wherein the forward saw blade guide (5) is pivotable away from the saw blade (1) by a hinge (8), a pivot axis of the hinge (8) being adjustable by an eccentric mounting in order to set a distance between the rearward and the forward saw blade guides (4, 5) for matching different thicknesses of the saw blade (1).

8. Circular saw machine according to claim 7, wherein the forward saw blade guide (5) at a point spaced apart from the hinge (8) near the saw blade (1) is connected by a spacer (9) to the rearward saw blade guide (4) or a retaining device (10) rigidly fixed relative thereto, the spacer (9) being at least one of interchangeable and adjustable.

9. Circular saw machine according to claim 8, wherein the spacer (9) is formed such that, depending upon an orientation with which the spacer is assembled, a predetermined wider or narrower distance between the forward and the rearward saw blade guides (4, 5) is provided.